



# History and Future of Wisconsin LFGTE

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# Background

- Regulation
  - Solid waste: must collect gas
  - Air: must destroy collected gas
- Financials
  - PURPA 1978: Utility must buy electricity
  - Outagamie ~1982: boiler demonstration
  - Section 29 tax credit ~ 1992



## Early WI projects

- Tork: ambitious, gas refining for autos
- Counties: Outagamie, Winnebago, Dane
- Some state funding
- Good development of bulk-power business model, as done in other states



# Recent state mandates and opportunities

- ...stay tuned
- 50 MW renewables mandate
- Green pricing (WMI WEPCo)
- Renewable portfolio standard
  - ~ 100 million new kW-hr per year until 2011
  - ~ 12 new MW per year if all LFG



# Future

- Bulk Power
- Direct Use
- Demand-side applications



# Bulk Power

- Little help from state
  - the market is well-developed.
  - RPS is in place
- Feds??
- LFGTE still least-cost of the renewables?



# Direct use

- Energy Exchange
  - [www.energyxchange.org](http://www.energyxchange.org)
  - Oneida County







# Direct use

Arts incubator

USDA Biz Dev

SMALL landfill







# Demand-Side

- Thermal or electric
- State assistance available
- For example
  - customer's side of the electric meter, excess to utility
  - combined heat and power



# Contact info

and a small thought to ponder

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I do not know what I may appear to the world; but to myself I seem to have been only like a boy, playing on the sea-shore, and diverting myself, in now and then finding a smoother pebble, or a prettier shell than ordinary, whilst the great ocean of truth lay all undiscovered before me.

-- Isaac Newton